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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/744,644	08/22/2001	Iancu Lungu	RICHTER-39503	2686

7590

02/13/2003

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EXAMINER

LAM, THANH

ART UNIT

PAPER NUMBER

2834

DATE MAILED: 02/13/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
09/744,644

Applicant(s)
Lungu

Examiner
Thanh Lam

Art Unit
2834



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on _____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
*See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____ 6) ☐ Other:

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

2. This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.
3. The following guidelines illustrate the preferred layout and content for patent applications. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

The following order or arrangement is preferred in framing the specification and, except for the reference to the drawings, each of the lettered items should appear in upper case, without underling or bold type, as section headings. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) Title of the Invention.
- (b) Cross-Reference to Related Applications.
- (c) Statement Regarding Federally Sponsored Research or Development.

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- (d) Reference to a "Sequence Listing," a table, or a computer program listing appendix submitted on compact disc (see 37 CFR 1.52(e)(5)).
 - (e) Background of the Invention.
 - 1. Field of the Invention.
 - 2. Description of the Related Art including information disclosed under 37 CFR 1.97 and 1.98.
 - (f) Brief Summary of the Invention.
 - (g) Brief Description of the Several Views of the Drawing(s).
 - (h) Detailed Description of the Invention.
 - (i) Claim or Claims (commencing on a separate sheet).
 - (j) Abstract of the Disclosure (commencing on a separate sheet).
 - (k) Drawings.
 - (l) Sequence Listing, if on paper (see 37 CFR 1.821-1.825).
4. Claims 5-22 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim 4. See MPEP § 608.01(n). Accordingly, the claims 5-22 are not been further treated on the merits.

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Claim Rejections - 35 USC § 112

5. The claims are generally narrative and indefinite, failing to conform with current U.S. practice. They appear to be a literal translation into English from a foreign document and are replete with grammatical and idiomatic errors.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Lungu (pn. 6262510).

Lungu (see figs. 1,1a,2-3,8-10) discloses a winding carrying part which produces a rotary field of an electronically switched two-phase reluctance machine, consisting of individual wound U-shaped yokes (11x), characterized in that it consists of an assembly of several winding carrying U-shaped magnets which are fixed on a nonmagnetic carrier frame, their winding connections (112-113) being connected by means of a fixed, form defined, axially mountable electric conductor compound with each other and with further power conducting electric components.

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Regarding claim 2, Lungu discloses winding carriers with shoulders which serve to drive the beginnings of the winding bands at the beginning of the winding process and to insulate these beginnings from each other, eventually together with insulating foils, these winding bands having openings for the fixation on the winding carrier, the winding carrier having lateral shoulders as required which retain the ends of the bands.

Regarding claim 3, Lungu discloses the winding bands (112-113) show plug lugs which develop because of the adaptation, particularly because of the folding of the ends of the winding bands, or because of the fitting of appropriate parts.

Regarding claim 4, Lungu discloses the U-shaped yokes with the Mounted windings are extrusion coated with an insulating mass and are sealed and held together in this way and form a so-called U-shaped magnet, form defined and easy to handle and that, due to the extrusion coating in a matrix with all insulating plastic mass, the plug lugs of the windings are consolidated and shaped.

Regarding claim 5, Lungu discloses a nonmagnetic frame as a carrier which is made of a bearing carrying plate with Columns which run from the front to the rear end shield, the columns being provided with an axial profile for the form-fit fixing of the U-shaped magnets, whereby the columns can be spread out in the elastic area to simplify the assembly.

Regarding claim 6, Lungu discloses the frame consists of two preferably identical half frames which have a certain number of columns which is the same or the half of the number of the U-shaped magnets which can be axially mounted on both sides of the latter.

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Regarding claim 7, Lungu discloses a frame which has openings for the fixing of the U-shaped magnets, the openings being formed in the front by an end shield, laterally by two columns and at the rear by a ring.

Regarding claim 8, Lungu discloses the magnets are fixed in the frame by means of a tolerance compensating method in such a way that the pole faces of the U-shaped magnets are brought to stop against a calibrating roll which has the diameter of the rotor space which is centered in the bearings and that the U-shaped magnets are fixed in this position.

Regarding claim 9, Lungu discloses the U-shaped magnets are pressed on the calibrating roll by an electromagnetic force.

Regarding claim 10, Lungu discloses the form-fit fixing of the U-shaped magnets is carried out by means of a hardenable material which is brought-in in liquid or still plastic state in interconnected partial spaces between the U-shaped magnets which are to be fixed mutually and the frame in Such a way that it fills the interconnected spaces between the U-shaped magnets and the columns of the frame.

Regarding claim 11, Lungu discloses the fixing of the U-shaped magnets is carried out by means of prefabricated parts inserted into the interconnected spaces between the U-shaped magnets and the columns of the frame which are deformed with an appropriate method in order to interlock these parts.

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Regarding claim 12, Lungu discloses the electric connection of the winding connections and of further high voltage conducting parts is carried out by a conductor compound which consists of metallic conductor paths and of an insulating carrier.

Regarding claim 13, Lungu discloses the conductor compound consists of punched conductor paths which are fixed on a plastic body by sticking, clipping, ultrasonic riveting or extrusion coating.

Regarding claim 14, Lungu discloses the punching of the conducting paths takes place in two phases in such a way that, prior to the final punching out, the conductor paths can be handled in all, together with the residual half-product out of which they have been cut, for an easier fixing on the carrier, before the final punching out of the conductor paths takes place by separating the edges.

Regarding claim 15, Lungu discloses the extremities of the conductor paths have an electric contact with the ends of the windings in the manner of plug-in connections.

Regarding claim 16, Lungu discloses loops of current outside the plane of the conductor compound.

Regarding claim 17, Lungu discloses the conductor compound shows on one side a printed card for weak current.

Regarding claim 18, Lungu discloses a rotor of a machine with two independent rotors, the frame being mounted for this on a hollow shaft, the U-shaped magnets being mounted without balance error and protected against the destruction by centrifugal forces.

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Regarding claim 19, Lungu discloses it is entirely or partially protected by a housing fixed on the frame which fixes or protects the motor parts.

Regarding claim 20, Lungu discloses a motor casing which has a thermal contact with head loaded motor parts.

Regarding claim 21, Lungu discloses the motor housing is situated inside a housing-type section of the suction pipe and that air which protect the motor against dirt accumulation and eventually additionally cools, can flow inside the motor housing over a pipe under the suction effect of the blower.

Regarding claim 22, Lungu discloses wound conductors which have variable cross sections along a winding so that each winding is thinner between the limbs of the U-shaped yokes than on its sides.

8. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Richardson et al.

Richardson et al. (see figs. 1-7) discloses a winding carrying part which produces a rotary field of an electronically switched two-phase reluctance machine, consisting of individual wound U-shaped yokes, characterized in that it consists of an assembly of several winding carrying U-shaped magnets which are fixed on a nonmagnetic carrier frame, their winding connections being connected by means of a fixed, form defined, axially mountable electric conductor compound with each other and with further power conducting electric components.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Lam whose telephone number is (703) 308-7626. The fax phone number for this Group is (703) 305-3432.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0656.

A handwritten signature in black ink, appearing to read 'Thanh Lam', with a long, sweeping horizontal stroke extending to the left.

Thanh Lam

Patent Examiner

Feb. 11, 2003